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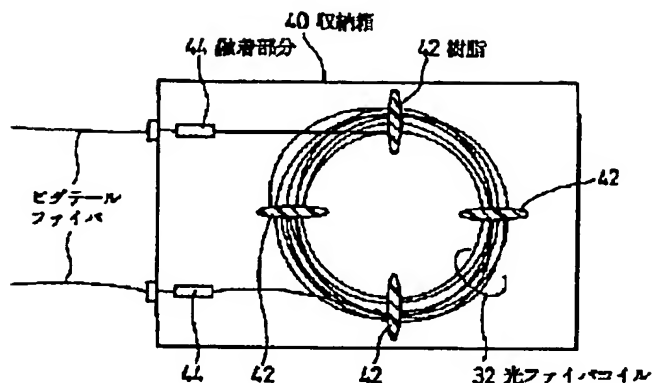
APPLICATION DATE : 24-10-96
APPLICATION NUMBER : 08282531

APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : SASAOKA HIDEYORI;

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TITLE : WAVELENGTH DISPERSION
COMPENSATOR AND ITS
MANUFACTURE



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide a small-sized wavelength dispersion compensator which has low transmission loss and contains a long wide-band DCF so that no increase in transmission loss is caused even in high-temperature environment.

SOLUTION: An optical fiber coil 32 after being manufactured by winding the wide-band DCF (dispersion compensating optical fiber) around a coil barrel is taken out of the coil barrel to manufacture an optical fiber coil 32 in a bundle state wherein winding strain is released. Resin 42 is used as a winding disorder preventive member to fix the optical fiber coil 32 to a storage box at four places. Both the ends of the optical fiber coil 32 are connected to pigtail fibers by fusion splicing parts 44 respectively. Even when the storage box is closed with its lid after the optical fiber coil 32 is fixed to the storage box 40 with the resin 42, a gap is left in the bundle of the optical fiber coil 32 and a space is left between the optical fiber coil 32 and storage box, so there is no increase in the transmission loss, etc., even when the bundled optical fiber coil 32 is stored in the storage box 40.

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SEARCH REPORT